



EQUATION PROBLEMS

LESSON 6

Jan 21-8:53 AM

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EXAMPLE:

EQUATION PROBLEMS:

A math student tried to solve the equation $-7y = 42$ by adding 7 to each side. Explain what is wrong with the student's method. Show the correct way to solve the equation.

<i>Explanation</i>	<i>Correct Way</i>
$-7y = 42$	$-7y = 42$
$-7y + 7 = 42 + 7$	$\frac{-7}{-7} \quad \frac{42}{-7}$
$-7y + 7 = 49$	$y = -6$
<i>Inverse Operation</i>	
<i>multiplying \rightarrow Dividing</i>	

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Practice

YOU TRY!

EQUATION PROBLEMS:

A math student tried to solve the equation $x + 6 = 12$ by adding 6 to each side. Explain what is wrong with the student's method. Show the correct way to solve the equation.

<i>Explanation</i>	<i>Correct Way</i>
$x + 6 = 12$	$x + 6 = 12$
$x + 6 + 6 = 12 + 6$	$x + 6 - 6 = 12 - 6$
\Rightarrow Inverse Operation	$x = 6$
<i>Adding \rightarrow subtract.</i>	

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EXAMPLE:

EQUATION PROBLEMS:

What mistakes did the math student make? Write the correct solution for the question.

<i>Mistake.</i>	<i>should not multiply 3.2 by 4</i>
$4(x - 1.4) = 3.2$	
$4(x) - 4(1.4) = 4(3.2)$	
$4x - 5.6 = 12.8$	
$4x - 5.6 + 5.6 = 12.8 + 5.6$	
$4x = 17.4$	
$\frac{4x}{4} = \frac{17.4}{4}$	
$x = 4.35$	
<i>Solution</i>	
$4x - 5.6 = 3.2$	
$4x - 5.6 + 5.6 = 3.2 + 5.6$	
$4x = 8.8$	
$\frac{4x}{4} = \frac{8.8}{4}$	
$x = 2.2$	

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Practice

YOU TRY!

EQUATION PROBLEMS:

Solve the following equation: $\frac{x}{4} + \frac{7}{6} = \frac{5}{6}$

$$12 \left[\frac{x}{4} \right] + 12 \left[\frac{7}{6} \right] = 12 \left[\frac{5}{6} \right]$$

$$3x + 14 = 10$$

$$3x + 14 - 14 = 10 - 14$$

$$\frac{3x}{3} = \frac{-4}{3}$$

$$x = -4/3$$

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Practice

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